

SHEAR WEB (SW) SERIES LOAD CELLS

FEATURES

- First Choice for Structural and Materials Testing
- Low Height
- Guaranteed Maximum Off-Center Load & Moment Error
- Low Creep
- Low Susceptibility to Magnetic Fields
- Barometric Pressure Compensation
- Output to 4mV/V
- 5pt Tension & Compression Calibration
- Proprietary Modulus Compensated Strain Gages



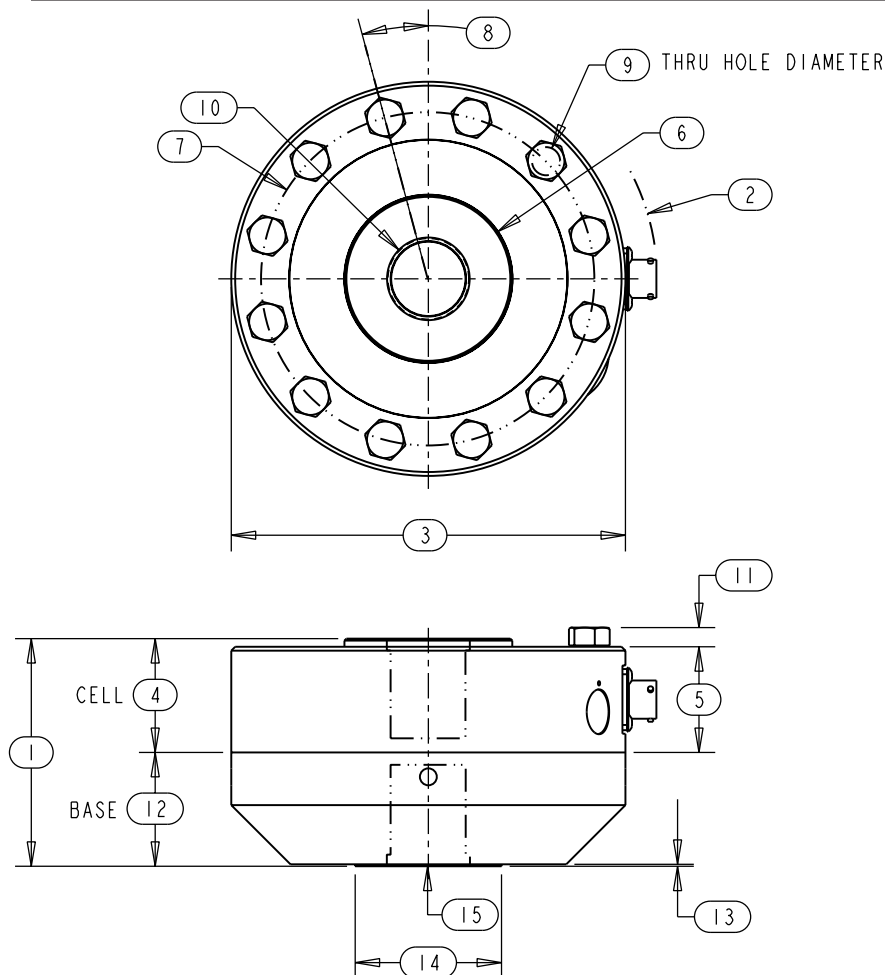
SPECIFICATIONS

Model		SW10 300, 500, 1K, 2K	SW10	SW20	SW22	SW30
Capacity	U.S. lbf.		5K, 10K	25K, 50K	60K	100K
PARAMETERS	Metric kN	1.5, 2.5, 5, 10	25, 50	100, 250	270	300, 500
ACCURACY						
Static Error Band, % Rated Output		+/-0.040	+/-0.040	+/-0.040	+/-0.050	+/-0.050
Nonlinearity, % Rated Output		+/-0.040	+/-0.040	+/-0.040	+/-0.050	+/-0.050
Hysteresis, % Rated Output		+/-0.030	+/-0.040	+/-0.050	+/-0.050	+/-0.050
Nonrepeatability, % Rated Output		+/-0.010	+/-0.010	+/-0.010	+/-0.010	+/-0.010
Creep, % in 20 minutes		+/-0.025	+/-0.025	+/-0.025	+/-0.025	+/-0.025
Off-Center Load Sensitivity, %/inch		+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Side Load Sensitivity, %		+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Zero Balance, % Rated Output		+/-1.0	+/-1.0	+/-1.0	+/-1.0	+/-1.0
TEMPERATURE						
Range, Compensated, °F		+15 to +115	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Compensated, °C		-10 to +45	-10 to +45	-10 to +45	-10 to +45	-10 to +45
Range, Operating, °F		-65 to +200	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Range, Operating, °C		-55 to +90	-55 to +90	-55 to +90	-55 to +90	-55 to +90
Effect on Sensitivity, % Rdg/ °F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Sensitivity, % Rdg/ °C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
Effect on Zero, % Rated Output/ °F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Zero, % Rated Output/ °C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
ELECTRICAL						
Rated Output, mV/V, Nominal		2	4	4	4	4
Excitation Voltage, VDC Maximum		20	20	20	20	20
Input Resistance, Ohms		350	350	350	350	350
Output Resistance, Ohms		350	350	350	350	350
Insulation Resistance, Megohm		5000	5000	5000	5000	5000
Bayonet Connector		PT02E-10-6P (MS3112E-10-6P)				
MECHANICAL						
Safe Overload Range, % Rated Capacity		+/-150	+/-150	+/-150	+/-150	+/-150
Weight lb		1.0	2.9	9.1	13.5	23.5
Weight kg		0.5	1.3	4.1	6.1	10.7
Weight w/base lb		2.5	6.5	21.5	27.5	52.5
Weight w/base kg		1.1	3.0	9.8	12.5	23.8
Flexure Material		Aluminum	Steel	Steel	Steel	Steel

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DIMENSIONS

Model	SW10	SW10M	SW10	SW10M	SW20	SW20M	SW22	SW22M	SW30	SW30M
Capacity	300, 500, 1K, 2K lbf	1.5, 2.5, 5, 10 kN	5K, 10K lbf	25, 50 kN	25K, 50K lbf	100, 250 kN	60K lbf	270 kN	100K lbf	300,500 kN
Dimensions	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1.	2.51	63.5	2.51	63.5	3.51	88.9	4.50	114.3	4.50	114.3
2.	R 2.53	R 64.3	R 2.53	R 64.3	R 3.50	R 88.9	R 3.50	R 88.9	R 4.50	R 114.3
3.	4.12	104.8	4.12	104.8	6.06	154.0	6.06	154.0	8.00	203.2
4.	1.38	34.9	1.38	34.9	1.75	44.5	2.25	57.2	2.50	63.5
5.	1.25	31.8	1.25	31.8	1.63	41.3	2.13	54.1	2.25	57.2
6.	1.29	32.8	1.29	32.8	2.34 25K 2.58 50K	59.4 100kN 65.6 250kN	2.58	65.6	3.76	95.6
7.	3.50	88.9	3.50	88.9	5.13	130.3	5.13	130.3	6.50	165.1
8.	22.5°	22.5°	22.5°	22.5°	15°	15°	15°	15°	11.25°	11.25°
9.	.28 8 Places	7.1 8 Places	.28 8 Places	7.1 8 Places	.41 12 Places	10.3 12 Places	.47 12 Places	11.9 12 Places	.53 16 Places	13.5 16 Places
10.	1/2-20 1.12 Deep	M12 x 1.25 28.5 Deep	5/8 - 18 1.12 Deep	M16 x 2 28.5 Deep.	1 1/4 - 12 1.50 Deep	M33x 2 38.1 Deep	1 1/2 - 12 2.0 Deep	M36x 2 50.8 Deep	1 3/4-12 2.20 Deep	M42 x 2 55.9 Deep
11.	0.18	4.7	0.18	4.7	0.29	7.5	0.31	7.9	.40	10.2
12.	1.13	28.6	1.13	28.6	1.75	44.5	2.25	57.2	2.00	50.8
13.	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8
14.	1.25	31.8	1.25	31.8	2.25	57.2	3.00	76.2	3.00	76.2
15.	1/2-20 .88 Deep	M12 x 1.25 22.4 Deep	5/8 - 18 .88 Deep	M16 x 2 22.4 Deep	1 1/4 - 12 1.50 Deep	M33 x 2 38.1 Deep	1 1/2 - 12 2.00 Deep	M36 x 2 50.8 Deep	1 3/4-12 1.75 Deep	M42 x 2 44.5 Deep



OPTIONS

Additional bridges
Output adjustment to standard
Compression overload protection
Integral cable
Custom connectors
Connector Protectors
Base

ACCESSORIES

Mating connector
Loading fixtures
Interconnect cable
Shunt calibration resistor
Instrumentation